

Marine Corps Depots



3.0 MARINE CORPS

The Marine Corps Logistics Bases (MCLB) at Albany, Georgia, and Barstow, California, comprise a two-base supply and depot maintenance complex that provides worldwide expeditionary logistics support to the Fleet Marine Force (FMF) and other forces and agencies.

The repair facilities operate as multi-commodity maintenance centers. The maintenance center (MC) is an integral part of the Marine Corps Logistics Base, and works closely with the other organizations in carrying out the mission of the base, which is to provide logistics support to Marine Forces that will maintain continuous readiness and sustainment necessary to meet operational requirements.

The Marine Corps Maintenance Centers (MCs) do not specialize in the support of a specific commodity. They are capable of supporting Marine Corps ground combat and combat support equipment. Personnel are cross-trained to apply common skills to work on a variety of equipment in different commodities. This affords the Marine Corps MCs the flexibility to rapidly realign their work force to meet the changing requirements of the FMF. It should be noted that while the MCs' capacity for each major commodity is highly flexible, their total capacity is relatively constant.

The MCs at Albany and Barstow have the following mission:

- Repair, rebuild, and modify all types of Marine Corps ground combat equipment, and combat support and combat service support equipment. The centers also provide Inspect and Repair Only as Necessary on all Marine Corps equipment.
- Provide preparation for shipment and care-in-store support to the remote storage activity.
- Provide calibration support to various Marine Corps customers.
- Provide technical assistance to the FMF and Marine reserve units.
- Conduct special projects as directed.

3.1 Marine Corps Logistics Base (MCLB), Albany, Georgia

3.1.1 OVERVIEW

History:

- Established on 1 February 1954 as the Repair Branch, Marine Corps Supply Center, Albany, Georgia.
- Production began on 1 October 1954.
- 1 July 1956 the branch was renamed the Repair Division.
- In July 1968 the Division became an Industrial Fund Activity operating under private sector principles and practices.
- Now referred to as the Maintenance Center, MCLB Albany.

Mission:

What we do is important. Someday a Marine's life may depend on it. Our mission is to provide maintenance and maintenance-related products and services that meet our customers' needs in quality, schedule, and cost.

Major End Items:

- AAV Amphibious Assault Vehicle
- LAV Light Assault Vehicle
- M1A1 Main Battle Tank
- HMMWV Humvee
- M88 Tank Retriever
- 5 ton truck

We also work radar, communications/electronics and various secondary repairable components.

Location:

- Located in Albany (Dougherty County), Georgia.
- 176 miles south of Atlanta, Georgia.
- 200 miles northwest of Jacksonville, Florida and the Blount Island Command.
- Climate permits work to be performed outside most of the year, averaging 85 to 95 degrees.

Size:

- The Maintenance Center consists of 25 buildings with 671,000 SF.
- The main building is 362,000 SF with 75 and 30 ton overhead cranes. This building is valued at \$91M.
- Surrounded by 1.4M SF of concrete hardstand.
- Total equipment value of \$32.9M

Workforce/Payroll:

- Current work force of 817 civilians and 6 marines.
- Annual payroll of approximately \$44M civilian and 461K military.

Transportation Access:

- The depot is accessible via US Highways 19 and 82, and Georgia Highways 3, 50, 62, 91, 133, 234, and 300.
- Interstate 75 is located 42 miles to the east.
- 41 common carriers, 15 with terminals or agencies, 19 with interstate service, and 22 with intrastate service provides motor freight services.
- Rail service is provided by Norfolk Southern, Atlantic and Gulf, Georgia Great Southern Railway companies.
- Bus and air services are provided by Greyhound-Trailways bus system, Atlantic Southeast Airlines and United Parcel Service.
- Barge facilities are located 57 miles southeast at Bainbridge, Georgia

Environmental Programs:

- The Maintenance Center has a very active environmental staff that consists of one engineer, four environmental protection specialists and one material handler. In addition each cost work center has a representative assigned to coordinate the daily generation of waste and use of materials. A base environmental office fully staffed with complete multimedia accountability complements the staff of the Maintenance Center.
- Each year complete refresher training is provided to the environmental staff as well as the individual cost work center representatives. In addition awareness training is provided to all industrial employees with the Maintenance Center who have the opportunity to cause the Center to become out of compliance.
- The depot is in an attainment area, which means that air quality is within all applicable limits and therefore no unusual restraints are placed on the operations. All industrial effluent is discharged to the City of Albany municipal wastewater treatment works and the city maintains surveillance of the parameters of the wastewater discharge permit. The MCLB has good relations with local, state, and federal environmental agencies.

3.1.2 PLANNED TECHNOLOGICAL ENHANCEMENTS

Manufacturing Techniques/Processes:

Since all of our workload is repair oriented, new technology will be listed under Repair Techniques/Processes

Repair Techniques/Processes

- Manufacturing Resource Planning (MRP II) system being implemented.
- ISO 9002 implementation currently underway.
- Earned Value Management procedures are currently being implemented.
- Procuring an Omax abrasive cutting machine for cutting small or intricate parts with minor setup time and tooling.
- Plans are to install an asset tracking system that will track major components, such as AAV hulls.
- Currently initiating welder certification and welding process certification procedures.

3.1.3 COMMODITIES AND PRODUCTS

Automotive Equipment

Accessories and Components
Armament
Communications
Electronics
Engine
Fire Control
Hull & Chassis

Support Equipment

Combat Vehicles

Accessories and Components
Armament
Communications

Fire Control
General Purpose
Hull & Chassis
Power Plants
Support Equipment

Construction Equipment

Accessories and Components
Communications
Electronics
Engine
Hull & Chassis

General Support Equipment

Accessories and Components
Electronic Test Equipment
Machine Tools
Power Plant/Generator Set Recip
Troop Support Equipment

Ordnance

Accessories and Components
Conventional Arms & Explosives
Engines
Guns & Artillery
Small Arms

Communications/Electronics

Accessories and Components
Electronics
General Purpose
Power Plants Recip
Radar
Shelter/Housing
Support Equipment

3.1.4 PROCESSES AND TECHNOLOGIES

Cleaning/Stripping

Abrasive Flow
Agricultural Media Blast
Glass Media Blast
Grit Blast
Hazardous Chemicals
Non-Hazardous Chemicals
Plastic Media Blast
Sand Blast
Steam
Steel Media Blast
Ultrasonic
Vibratory Finishing

Fabrication/Repair

Air Conditioning - Freon
Bearing Process
CAD/CAM
- Artwork-Flat Wire Cables
- Artwork-Printed Circuit Board
- CNC & NC Programming
- Drilling/Lathe/Punch
- Engineering Analysis
- Engineering Design/Drawings
- Forming/Machining/Milling
- Printed Circuit Board
- Sheetmetal
Certified Soldering
Class 100,000 Clean Room
CNC Forming/Machining/Milling
Coaxial Cable
Cutting - Oxyfuel
Cutting - Plasma
Electronic ATE
Explosive Forming and Cladding
Fiber Optics
Flame Spray
Forming/Machining/Milling
Heat Treating

Fabrication/Repair

Metal Finishing
Metrological
Optics
Phosandodize
Photo Etching
Plasma Spray
Plating - Anodize
Plating - Cadmium
Plating - Chromium
Plating - Nickel
Precision Balancing
Precision Equipment
Printed Circuit Board
Rubber Products
Test Program Sets
Tool and Die
Welding - Arc
Welding - Certified Ballistic
Welding - Certified Soldering
Welding - Dabber TIG
Welding - TIG, MIG
Wiring Harness

Test and Inspection

Air/Fuel Flow
Antenna Test Range
Bearing Process
Bonding Test
Calibration
Dynamometer - Chassis
Dynamometer - Engine
Dynamometer - Transmission
Eddy Current
Electronic ATE - Analog
Electronic ATE - Digital
Electronic ATE - Ditmco
Electronic ATE - GenRad
Electrostatic Discharge

Test and Inspection

Fiber Optics
Fluorescent Penetrant - Manual
Gymnasticator
Hydraulic Systems
Laser Measuring
Load Test
Magnetic Particle
Radiography - Gamma
Radiography - Ionized Radiation
Spectrographic Analysis
Test Slopes
Test Tank
Test Track
Type II Calibration Laboratory
Ultrasonic - Manual
Video Inspection Probe
X-Ray - Film

3.2 Marine Corps Logistic Base (MCLBB), Barstow, California

3.2.1 OVERVIEW

History:

- Located at the Marine Corps Logistics Base (MCLB) Barstow, California.
- Originally established in 1961 as the Repair Division, Marine Corps Supply Center, Barstow, California.
- The Depot Maintenance Activity (DMA) was chartered as an industrial funded DMA in July 1968 and in October 1976.
- The DMA was included in the implementation of the DOD uniform cost accounting procedures using stabilized rates.
- The base itself was renamed MCLB Barstow on 1 November 1978.

Location:

- The Multi-Commodity Maintenance Center referred to as a Maintenance Center (MC) is located within the Yermo Annex of MCLB Barstow.
- Yermo is located 11 miles east of Barstow adjacent to Interstate 15 (eight miles east of Nebo).
- Both Nebo and Yermo are approximately 2,100 feet above sea level and are situated in the heart of the Mojave Desert.

Size:

- The Maintenance Center consists of three large steel, concrete, and brick buildings valued at \$142M.
- Buildings provide a total of 694,899 SF of covered workspace.
- Hard stand around central repair facility provides 1.7M SF of outside storage, staging and limited work area.
- Central repair shop is structured around a 1,050-foot long by 80-foot wide crane way.
- Two 87.5-ton bridge cranes servicing the crane way.
- Two 40-ton cranes, a 30-ton crane, a 20-ton crane, two 10-ton cranes, and numerous other smaller cranes throughout the building.
- Shop equipment valued at \$231M, ranging from heavy industrial equipment to state-of-the-art laser optical test equipment.

Workforce/Payroll:

- MCLB second largest employer in the area
- MC employs approximately 920 civilians and 5 military personnel
- Average payroll of \$49.9M

3.2.2 TECHNOLOGICAL ENHANCEMENTS

Garnet Abrasive Paint and Corrosion Removal Blasting:

- Large vehicle paint and corrosion removal capacity
- Accomplished using safe and efficient garnet stripping media
- Abrasive blast media rapidly removes paint from metal surfaces to white metal
- Surface is left clean and dry ready for new coatings and finishing

Small Arms Indoor Test Firing Range:

- Test Firing Range tests small arms indoors
- 100 meter range
- Tests all small arms weapons up to the 50 caliber machine gun
- Test fired for proper operation and accuracy

Process Standards:

- Process Standards currently up and running on the HMMWV line at five stations.
- Near completion on the 5-ton truck line.
- Artisan/controller interface is done through screen monitors.
- All controllers access a single database (Sybase Anywhere).
- Interfaces are currently being worked out between PDMSS, ERP, NUMMS.
- Process Standards will be expanded to the AAV and LAV lines.

New Plastic Media Bead (PMB) Blasting Facility:

- PMB vehicle blast facility operates continuously using modern down flow, through the floor dust removal and media recovery system.
- The facility is safe and environmentally compliant.
- PMB blast media removes paint and corrosion from metal and nonmetal surfaces.
- Media leaves the surface clean and dry ready to receive new coatings.
- The capability is ideal for partial removal of CARC paint coatings for maintenance repainting with new CARC coatings.

3.2.3 COMMODITIES AND PRODUCTS

Aircraft

Metal Airframe

Automotive Equipment

Accessories and Components

Armament

Communications

Electronics

Engine

Fire Control

Hull & Chassis

Support Equipment

Combat Vehicles

Accessories and Components

Armament

Communications

Fire Control

General Purpose

Hull & Chassis

Power Plants

Support Equipment

Communications/Electronics

Accessories and Components

Electronics

Power Plants GTE

Power Plants Recip

Radar

Shelter/Housing

Support Equipment

Construction Equipment

Accessories and Components

Communications

Electronics

Engine

Hull & Chassis

General Support Equipment

Accessories and Components

Electronic Test Equipment

Machine Tools

Power Plant/Generator Set GTE

Power Plant/Generator Set Recip

Troop Support Equipment

Missile

Support & Launch

Surface Command & Control

Ordnance

Accessories and Components

Conventional Arms & Explosives

Engines

General Purpose

Guns & Artillery

Small Arms

Ships

Accessories and Components

Engine

3.2.4 PROCESSES AND TECHNOLOGIES

Cleaning/Stripping

Abrasive Flow
Agricultural Media Blast
Cellars Gun
Flash Paint Removal
Glass Media Blast
Grit Blast
Hazardous Chemicals
Non-Hazardous Chemicals
Plastic Media Blast
Sand Blast
Steam
Steel Media Blast
Ultrasonic
Ultrasonic - Manual
Vapor Degreaser
Water Jet

Fabrication/Repair

Air Conditioning - Freon
CAD/CAM
- Artwork-Flat Wire Cables
- Artwork-Printed Circuit Board
- CNC & NC Programming
- Drilling/Lathe/Punch
- Engineering Analysis
- Engineering Design/Drawings
- Forming/Machining/Milling
- Printed Circuit Board
Certified Soldering
Class 100,000 Clean Room
CNC Forming/Machining/Milling
Coaxial Cable
Cutting - Oxyfuel
Cutting - Plasma
Electronic ATE
EPROM/Prom Programming
Fiber Optics
Flame Spray
Forming/Machining/Milling
Foundry - Ferrous

Fabrication/Repair

Foundry - Non-Ferrous
Heat Treating
Metal Finishing
Metal Finishing (Paint, CARC)
Metrological
Optics
Phosandodize
Photo Etching
Plasma Spray
Plating - Anodize
Plating - Chromium
Plating - Nickel
Plating - Tin/Lead
Precision Balancing
Printed Circuit Board
Rubber Products
Test Program Sets
Tool and Die
Welding - Arc
Welding - Certified Ballistic
Welding - Dabber TIG
Welding - TIG, MIG
Wiring Harness

Test and Inspection

Air/Fuel Flow
Antenna Test Range
Bearing Process
Calibration
Dynamometer - Chassis
Dynamometer - Engine
Dynamometer - Transmission
Eddy Current
Electron Microscope
Electronic ATE - Analog
Electronic ATE - Digital
Electronic ATE - Ditmco
Electronic ATE - GenRad
Electrostatic Discharge
Fiber Optics

Test and Inspection

Fluorescent Penetrant
Fluorescent Penetrant - Automated
Fluorescent Penetrant - Manual
Gymnasticator
Hydraulic Systems
Laser Measuring
Load Test
Magnetic Particle
Radiography - Gamma
Radiography - Ionized Radiation
Spectrographic Analysis
Stress
Test Program Sets
Test Slopes
Test Tank
Test Track
Type II Calibration Laboratory
Ultrasonic - Manual
Video Inspection Probe
X-Ray - Film
X-Ray - Real Time

